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Applicants: Philip M. Beart, Ross D. O'Shea, Karina Aprico, Andrew J. Lawrence, and Maria-Luisa Maccecchini

Serial No.: 09/944,954 Art Unit: 1614

Filed: September 1, 2001 Examiner: Not Yet Assigned

For: SCREEN FOR GLUTAMATE REUPTAKE INHIBITORS, STIMULATORS, AND MODULATORS

Assistant Commissioner for Patents  
Washington, D.C. 20231

**INFORMATION DISCLOSURE STATEMENT**

Sir:

Pursuant to 37 C.F.R. §1.56 and 37 C.F.R. §1.97, Applicants submit an Information Disclosure Statement, including five (5) pages of Form PTO-1449 and copies of forty-five (45) documents cited therein, and a copy of the International Search Report mailed June 13, 2002 in PCT/US01/27323, which corresponds to the above-identified application.

This Information Disclosure Statement is being filed under 37 C.F.R. § 1.97(b) prior to a first Office Action on the merits. It is believed that no fee is required with this submission. However, should a fee be required, the Commissioner is hereby authorized to charge any required fees to Deposit Account No. 50-1868.

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U.S.S.N.: 09/944,954  
Filed: September 01, 2001  
INFORMATION DISCLOSURE STATEMENT

### U.S. Patents

<u>Number</u>	<u>Issue Date</u>	<u>Patentee</u>	<u>Class/Subclass</u>
5,658,782	08-19-1997	Amara et al.	435/365
5,731,348	03-24-1998	Gu	514/561
5,739,284	04-14-1998	Hediger et al.	530/350
5,776,774	07-07-1998	Amara et al.	435/325
5,840,516	11-24-1998	Amara et al.	435/29
5,882,926	03-16-1999	Amara et al.	435/325
5,912,171	06-15-1999	Amara et al.	435/325
5,919,699	07-06-1999	Amara et al.	435/325
5,919,628	07-06-1999	Amara et al.	435/6
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5,989,825	11-23-1999	Amara et al.	435/6
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6,074,828	06-13-2000	Amara et al.	435/6
6,090,560	07-18-2000	Amara et al.	435/6
6,100,085	08-08-2000	Amara et al.	435/317.1

### Publications

APRICO, et al., "[<sup>3</sup>H]-(2S,4R)-4-methylglutamate: a novel ligand for the characterisation of astrocytic glutamate transporters," *Soc. Neurol. Abstr.* 26(1-2): 539.8 (2000), abstract only.

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PINES, et al., "Cloning and expression of a rat brain L-glutamate transporter," *Nature* 360(6403): 464-467 (1992).

ROBINSON, et al., "Heterogeneity and functional properties of subtypes of sodium-dependent glutamate transporters in the mammalian central nervous system," *Adv. Pharmacol* 37: 69-115 (1997).

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VANDENBERG, et al., "Serine-O-sulphate transport by the human glutamate transporter, EAAT2," *Br. J. Pharmacol.* 123(8): 1593-1600 (1998).

YE, et al., "Compromised glutamate transport in human glioma cells: reduction-mislocalization of sodium-dependent glutamate transporters and enhanced activity of cystine-glutamate exchange," *J. Neurosci.* 19(24): 10767-10777 (1999).

ZHOU, et al., "(2S,4R)-4-methylglutamic acid (SYM 2081): a selective, high-affinity ligand for kainate receptors" *J. Pharmacology Exper. Therapeutics* 280(1): 422-427 (1997).

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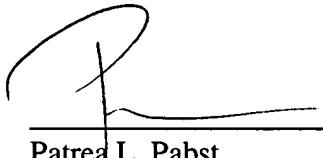


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Remarks

This statement should not be interpreted as a representation that an exhaustive search has been conducted or that no better art exists. Moreover, Applicants invite the Examiner to make an independent evaluation of the cited art to determine its relevance to the subject matter of the present application. Applicants are of the opinion that their claims patentably distinguish over the art referred to herein, either alone or in combination.

Respectfully submitted,



Patrea L. Pabst  
Reg. No. 31,284

Dated: May 29, 2003

HOLLAND & KNIGHT LLP  
One Atlantic Center  
1201 West Peachtree Street, N.E.  
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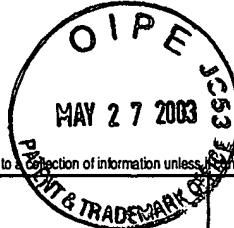
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Aisha Wyatt

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### U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	US Patent Document		Name of Patentee or Applicant of Cited Document	Date of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code <sup>2</sup> (if known)			
		5,658,782		Amara et al.	08-19-1997	
		5,731,348		Gu	03-24-1998	
		5,739,284		Hediger et al.	04-14-1998	
		5,776,774		Amara et al.	07-07-1998	
		5,840,516		Amara et al.	11-24-1998	
		5,882,926		Amara et al.	03-16-1999	
		5,912,171		Amara et al.	06-15-1999	
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		5,919,628		Amara et al.	07-06-1999	
		5,932,424		Amara et al.	08-03-1999	
		5,989,825		Amara et al.	11-23-1999	
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		6,090,560		Amara et al.	07-18-2000	

### FOREIGN PATENT DOCUMENTS

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		Office <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)				

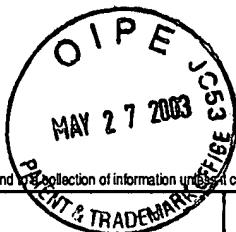
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		Application Number	09/944,954
		Filing Date	September 1, 2001
		First Named Inventor	Philip M. Beart
		Group Art Unit	1614
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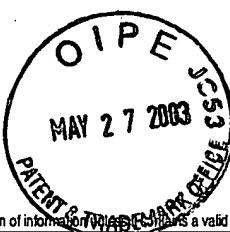
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Sheet 5 of 5	Attorney Docket Number	SYM 116/118	

**OTHER ART -- NON PATENT LITERATURE DOCUMENTS**

Examiner's Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T <sup>2</sup>
	/	ROTHSTEIN, et al., "Knockout of glutamate transporters reveals a major role for astroglial transport in excitotoxicity and clearance of glutamate," <i>Neuron</i> 16(3): 675-686 (1996).	
	/	SHIMAMOTO, et al., "DL-threo-beta-benzyloxyaspartate, a potent blocker of excitatory amino acid transporters," <i>Mol. Pharmacol.</i> 53(2): 195-201 (1998).	
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	/	TOMS, et al., "A novel kainate receptor ligand [3H]-(2S,4R)-4-methylglutamate: pharmacological characterization in rabbit brain membranes," <i>Neuropharmacology</i> 36(11-12): 1483-1488 (1997).	
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	/	VANDENBERG, et al., "Contrasting modes of action of methylglutamate derivatives on the excitatory amino acid transporters, EAAT1 and EAAT2," <i>Mol. Pharmacol.</i> 51(5): 809-815 (1997).	
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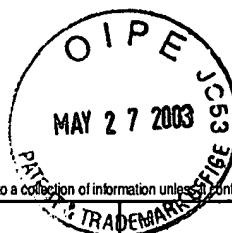
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		ARRIZA, et al., "Functional comparisons of three glutamate transporter subtypes cloned from human motor cortex," <i>J. Neurosci.</i> 14(9): 5559-5569 (1994).	
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		DUNLOP, et al., "The pharmacological profile of L-glutamate transport in human NT2 neurones is consistent with excitatory amino acid transporter 2," <i>Eur. J. Pharmacol.</i> 360(2-3): 249-256 (1998).	
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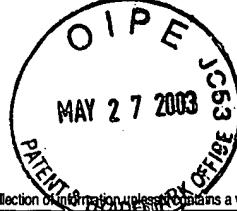
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		KANAI, et al., "Primary structure and functional characterization of a high-affinity glutamate transporter," <i>Nature</i> 360(6403): 467-471 (1992).	
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Examiner's Signature	Date Considered
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